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S47	2065	715/501.1,513.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/02/18 17:11
S48	367	715/522-523.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/02/18 17:11
S49	596	380/201,203.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/02/18 17:11
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S51	6	(("5,822,432") or ("5,745,569") or ("5,687,236") or ("5,613,004") or ("5,539,735") or ("5,428,606")).PN.	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	OFF	2004/07/14 07:42
S54	182	WATERMARK (HTML OR XML OR MARKUP) image text	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	SAME	ON	2005/02/18 12:08
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S60	1	S54 insert\$3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	SAME	ON	2005/02/18 11:43
S61	25	WATERMARK (web adj page) image text	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	SAME	ON	2005/02/18 12:08
S62	2526	715/501.1,513.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/02/18 17:11
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	1	Document ID	Issue Date	Title	Current OR	Inventor
1		US 2004022093 5 A1	20041104	System, method and medium for utilizing digital watermarks in instructional material	707/10	McGraw, Tammy Marie et al.
2	X	US 2003019005 4 A1	20031009	Method and system for distributing digital content with embedded message	382/100	Troyansky, Lidror et al.
3	X	US 6427020 B1	20020730	Methods and devices for recognizing banknotes and responding accordingly	382/100	Rhoads; Geoffrey B.



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John Colter, Netscape Navigator

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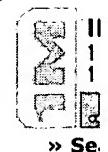
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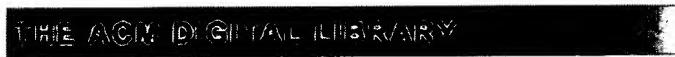
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1 Communication privacy: How to achieve blocking resistance for existing systems enabling anonymous web surfing

Stefan Köpsell, Ulf Hillig

October 2004 **Proceedings of the 2004 ACM workshop on Privacy in the electronic society**Full text available:  [pdf\(897.66 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We are developing a blocking resistant, practical and usable system for anonymous web surfing. This means, the system tries to provide as much reachability and availability as possible, even to users in countries where the free flow of information is legally, organizationally and physically restricted. The proposed solution is an add-on to existing anonymity systems. First we give a classification of blocking criteria and some general countermeasures. Using these techniques, we outline a conc ...

Keywords: AN.ON, JAP, Mix, blocking resistance

2 Query-preserving watermarking of relational databases and XML documents

David Gross-Amblard

June 2003 **Proceedings of the twenty-second ACM SIGMOD-SIGACT-SIGART symposium on Principles of database systems**Full text available:  [pdf\(269.00 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Watermarking allows robust and unobtrusive insertion of information in a digital document. Very recently, techniques have been proposed for watermarking relational databases or XML documents, where information insertion must preserve a specific measure on data (e.g. mean and variance of numerical attributes.) In this paper we investigate the problem of watermarking databases or XML while preserving a set of parametric queries in a specified language, up to an acceptable distortion. We first ...

Keywords: VC-dimension, watermarking, watermarking scheme

3 Broadcast and on-line cultural heritage: Copyright protection and management and a web based library for digital images of the Hellenic cultural heritage

Dimitris K. Tsolis, George K. Tsolis, Emmanouil G. Karatzas, Theodore S. Papatheodorou November 2001 **Proceedings of the 2001 conference on Virtual reality, archeology, and cultural heritage**Full text available:  [pdf\(358.69 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The main issue addressed in this paper is the design and implementation of an Advanced

Digital Image Repository, which offers specialized services and a Dedicated User Interface for the protection and management of the Intellectual Property Rights of digitized material. In addition, another main research area of this contribution is the implementation of a Web Based Library, supported by advanced technologies, for the proper presentation of the digital cultural content. The work described in thi ...

Keywords: copyright protection, databases, digital web archives, information systems, java applets, watermarking

4 Session 3: XML applications: Regulating access to SMIL formatted pay-per-view movies 

Naren Kodali, Duminda Wijesekera

November 2002 **Proceedings of the 2002 ACM workshop on XML security**

Full text available:  pdf(331.16 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

XML [15] has become a standard format for information that moves within the World Wide Web. Previous work in securing XML documents concentrated mainly on textual documents. Those proposals are ineffective in the context of multimedia, which mostly comprises of some sensible combination of images, text, audio, and video. As multimedia constitutes a significant component of the traffic within the Internet, it requires to be secured. We propose an access control model and an encryption mechanism t ...

Keywords: SMIL, XML, access control, encryption, integrity, pay-per-view, smart card, synchronized multimedia

5 Education and training: An XML-based approach to multimedia software engineering for distance learning 

T. Arndt, S. K. Chang, A. Guercio, P. Maresca

July 2002 **Proceedings of the 14th international conference on Software engineering and knowledge engineering**

Full text available:  pdf(95.53 KB) Additional Information: [full citation](#), [abstract](#), [references](#)

Multimedia Software Engineering (MSE) is a new frontier for both Software Engineering (SE) and Visual Languages (VL). In fact multimedia software engineering can be considered as the discipline for systematic specification, design, substitution and verification of visual patterns. Visual Languages contribute to MSE such concepts as: Visual notation for software specification, design and verification flow charts, ER diagrams, Petri Nets, UML visualization, visual programming languages etc. Multim ...

6 Session 3: XML applications: XrML -- eXtensible rights Markup Language 

Xin Wang, Guillermo Lao, Thomas DeMartini, Hari Reddy, Mai Nguyen, Edgar Valenzuela

November 2002 **Proceedings of the 2002 ACM workshop on XML security**

Full text available:  pdf(466.82 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

XrML (eXtensible rights Markup Language) is an XML-based language for digital rights management (DRM), providing a universal method for specifying rights and conditions associated with the use and protection of digital content and services. Originally developed at Xerox's Palo Alto Research Center (PARC), the specification facilitates the creation of an open architecture for digital rights management of content or services. It can be integrated with both existing and new DRM systems. XrML is a g ...

Keywords: DRM, XML, content distribution and usage, digital rights management, rights, specification languages, standards

7 Data security and protection: Rights protection for relational data 

Radu Sion, Mikhail Atallah, Sunil Prabhakar

June 2003 **Proceedings of the 2003 ACM SIGMOD international conference on Management of data**

Full text available:  pdf(229.76 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Protecting rights over relational data is of ever increasing interest, especially considering areas where sensitive, valuable content is to be outsourced. A good example is a data mining application, where data is sold in pieces to parties specialized in mining it. Different avenues for rights protection are available, each with its own advantages and drawbacks. Enforcement by legal means is usually ineffective in preventing theft of copyrighted works, unless augmented by a digital counter ...

8 Protocols: An XPath-based preference language for P3P



Rakesh Agrawal, Jerry Kiernan, Ramakrishnan Srikant, Yirong Xu

May 2003 **Proceedings of the twelfth international conference on World Wide Web**

Full text available:  pdf(107.76 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The Platform for Privacy Preferences (P3P) is the most significant effort currently underway to enable web users to gain control over their private information. The designers of P3P simultaneously designed a preference language called APPEL to allow users to express their privacy preferences, thus enabling automatic matching of privacy preferences against P3P policies. Unfortunately subtle interactions between P3P and APPEL result in serious problems when using APPEL: Users can only directly spe ...

Keywords: APPEL, P3P, XPath, XPref, hippocratic databases, preference, privacy-aware data management

9 Software and systems: Constructing a virtual primary key for fingerprinting relational data



Yingjiu Li, Vipin Swarup, Sushil Jajodia

October 2003 **Proceedings of the 2003 ACM workshop on Digital rights management**

Full text available:  pdf(240.49 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Agrawal and Kiernan's watermarking technique for database relations [1] and Li et al's fingerprinting extension [6] both depend critically on primary key attributes. Hence, those techniques cannot embed marks in database relations without primary key attributes. Further, the techniques are vulnerable to simple attacks that alter or delete the primary key attribute. This paper proposes a new fingerprinting scheme that does not depend on a primary key attribute. The scheme constructs virtual primar ...

Keywords: fingerprinting, primary keys, relational databases, robustness

10 Software engineering for security: a roadmap



Premkumar T. Devanbu, Stuart Stubblebine

May 2000 **Proceedings of the Conference on The Future of Software Engineering**

Full text available:  pdf(1.71 MB)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: copy protection, security, software engineering, water-marking

11 Multimedia and visualization: Self-manifestation of composite multimedia objects to satisfy security constraints



Vijayalakshmi Atluri, Nabil Adam, Ahmed Gomaa, Igg Adiwijaya

March 2003 Proceedings of the 2003 ACM symposium on Applied computingFull text available:  pdf(1.07 MB)Additional Information: [full citation](#), [abstract](#), [references](#)

A composite multimedia object (*cmo*) is comprised of different media components such as text, video, audio and image, with a variety of constraints that must be adhered to. These constraints include synchronization and spatial relationships between components, as well as the confidentiality and integrity requirements on each component. While spatial and synchronization constraints are to preserve the semantics of the *cmo*, the security (confidentiality and integrity) constraints are ...

Keywords: Petri Net, SMIL, modeling, multimedia object manifestation, security

12 The UCON_{ABC} usage control model 

Jaehong Park, Ravi Sandhu

February 2004 **ACM Transactions on Information and System Security (TISSEC)**, Volume 7
Issue 1Full text available:  pdf(518.61 KB)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

In this paper, we introduce the family of UCON_{ABC} models for usage control (UCON), which integrate *Authorizations (A)*, *oBligations (B)*, and *Conditions (C)*. We call these core models because they address the essence of UCON, leaving administration, delegation, and other important but second-order issues for later work. The term usage control is a generalization of access control to cover authorizations, obligations, conditions, continuity (ongoing controls), and mutability. Trad ...

Keywords: access control, digital rights management, privacy, trust, usage control

13 Security of runtime extensible virtual environments Ernesto J. Sallés, James Bret Michael, Michael Capps, Don McGregor, Andrzej Kapolka
September 2002 **Proceedings of the 4th international conference on Collaborative virtual environments**Full text available:  pdf(128.78 KB)Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Distributed, real-time virtual environment (VE) architectures have traditionally been driven by quality of service (QOS) considerations, with little or no concern paid to security issues. With recent advancements in functionality, computing power and network bandwidth it has become practical to use VEs in sensitive areas such as product development with proprietary information and visualization of classified information. Consequently, previously ignored aspects of security need to be made a prim ...

Keywords: collaborative environment, computer security, information assurance, runtime extensible virtual environment, security, taxonomy, virtual environment, virtual reality

14 Web accessibility: Improving the accessibility of aurally rendered HTML tables 

Robert Filepp, James Challenger, Daniela Rosu

July 2002 **Proceedings of the fifth international ACM conference on Assistive technologies**Full text available:  pdf(1.36 MB)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Current techniques employed to aurally render HTML tables often result in output that is very difficult for sight-impaired users to understand. This paper proposes TTPML, an XML-compliant markup language, which facilitates the generation of prose descriptions of tabular information. The markup language enables content creators to specify contextual reinforcement of, and linear navigation through, tabular information. The markup language may be applied to pre-existing Web content and is reusable ...

Keywords: Web accessibility, XML, aural interfaces, tables

15 Session 12C: middle agents: Supporting nomadic agent-based applications in the FIPA agent architecture

Mikko Laukkonen, Heikki Helin, Heimo Laamanen

July 2002 **Proceedings of the first international joint conference on Autonomous agents and multiagent systems: part 3**

Full text available:  pdf(1.45 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

A high variety of Quality of Service (QoS) in data transmission over wireless networks creates challenges that have not been adequately addressed in today's Internet-based services. Whereas today's distributed applications may result in treating rapid and extreme changes in QoS as failures, in the nomadic environment comprising wireless data communications we consider them as a usual case. Therefore, the complexity of data transmission should be hidden from the nomadic user and applications and ...

Keywords: adaptation, agent communication, nomadic application, software agent, wireless networks

16 Connectivity-based garbage collection

Martin Hirzel, Amer Diwan, Matthew Hertz

October 2003 **ACM SIGPLAN Notices , Proceedings of the 18th annual ACM SIGPLAN conference on Object-oriented programming, systems, languages, and applications**, Volume 38 Issue 11

Full text available:  pdf(521.65 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We introduce a new family of connectivity-based garbage collectors (Cbgc) that are based on potential object-connectivity properties. The key feature of these collectors is that the placement of objects into partitions is determined by performing one of several forms of connectivity analyses on the program. This enables partial garbage collections, as in generational collectors, but without the need for any write barrier. The contributions of this paper are 1) a novel family of garbage c ...

Keywords: connectivity based garbage collection

17 DRM usability and legal issues: Import/export in digital rights management

Reihaneh Safavi-Naini, Nicholas Paul Sheppard, Takeyuki Uehara

October 2004 **Proceedings of the 4th ACM workshop on Digital rights management**

Full text available:  pdf(211.60 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The inherently controlled nature of digital rights management systems does little to promote inter-operability of systems provided by different vendors. In this paper, we consider import and export functionality by which multimedia protected by one digital rights management regime can be made available to a multimedia device that supports a different digital rights management regime, without compromising the protection afforded to the content under the original regime. We first identify speci ...

Keywords: digital rights management, export, import, inter-operability

18 Trustworthy 100-year digital objects: Evidence after every witness is dead

Henry M. Gladney

July 2004 **ACM Transactions on Information Systems (TOIS)**, Volume 22 Issue 3

Full text available:  pdf(1.24 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In ancient times, wax seals impressed with signet rings were affixed to documents as evidence of their authenticity. A digital counterpart is a message authentication code fixed firmly to each important document. If a digital object is sealed together with its own audit trail, each user can examine this evidence to decide whether to trust the content---no matter how distant this user is in time, space, and social affiliation from the document's source. We propose an architecture and design that a ...

19 Image Retrieval from the World Wide Web: Issues, Techniques, and Systems 

M. L. Kherfi, D. Ziou, A. Bernardi

March 2004 **ACM Computing Surveys (CSUR)**, Volume 36 Issue 1

Full text available:  pdf(294.13 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

With the explosive growth of the World Wide Web, the public is gaining access to massive amounts of information. However, locating needed and relevant information remains a difficult task, whether the information is textual or visual. Text search engines have existed for some years now and have achieved a certain degree of success. However, despite the large number of images available on the Web, image search engines are still rare. In this article, we show that in order to allow people to profi ...

Keywords: Image-retrieval, World Wide Web, crawling, feature extraction and selection, indexing, relevance feedback, search, similarity

20 Biometrics, watermarking, IKE: Worm propagation modeling and analysis based on quarantine 

Yun-Kai Zhang, Yun-Kai ZHANG, Fang-Wei WANG, Fang-Wei Wang, Yu-Qing ZHANG, Yu-Qing Zhang, Jian-Feng MA, Jian-Feng Ma

November 2004 **Proceedings of the 3rd international conference on Information security**

Full text available:  pdf(514.35 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In recent years, the worms that had a dramatic increase in the frequency and virulence of such outbreaks have become one of the major threats to the security of the Internet. In this paper, we provide a worm propagating model. It bases on the classical epidemic Kermack-Kermack model, adopts dynamic quarantine strategy, dynamic infecting rate and removing rate. The analysis shows that model can efficiently reduce a worm's propagation speed, which can give us more precious time to defend it, and r ...

Keywords: epidemic model, network security, quarantine, worm propagation

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Martin Hirzel, Johannes Henkel, Amer Diwan, Michael Hind

June 2002 ACM SIGPLAN Notices , Proceedings of the 3rd international symposium on Memory management, Volume 38 Issue 2 supplementFull text available:  [pdf\(256.15 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Modern garbage collectors partition the set of heap objects to achieve the best performance. For example, generational garbage collectors partition objects by age and focus their efforts on the youngest objects. Partitioning by age works well for many programs because younger objects usually have short lifetimes and thus garbage collection of young objects is often able to free up many objects. However, generational garbage collectors are typically much less efficient for longer-lived objects, a ...

Keywords: connectivity based garbage collection, object lifetimes**22 Webware: a course about the Web**

David Finkel, Isabel F. Cruz

June 1999 ACM SIGCSE Bulletin , Proceedings of the 4th annual SIGCSE/SIGCUE ITiCSE conference on Innovation and technology in computer science education, Volume 31 Issue 3Full text available:  [pdf\(471.53 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Sophisticated applications and software development on the Web demand an extensive and thorough understanding of a variety of computer science disciplines, as well as providing their own set of issues. Therefore, we have created an advanced undergraduate computer science course called *Webware: Computational Technology for Network Information Systems* that builds upon and extends knowledge previously gathered by the students. We describe its contents, our teaching experience, and address th ...

Keywords: Computer Science Education, World-Wide Web**23 Multimedia coding and security: A flexible and scalable authentication scheme for JPEG2000 image codestreams**

Cheng Peng, Robert H. Deng, Yongdong Wu, Weizhong Shao

November 2003 Proceedings of the eleventh ACM international conference on MultimediaFull text available:  [pdf\(207.02 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

JPEG2000 is an emerging standard for still image compression and is becoming the solution of choice for many digital imaging fields and applications. An important aspect of JPEG2000 is its "compress once, decompress many ways" property [1], i. e., it allows extraction of various sub-images (e.g., images with various resolutions, pixel fidelities, tiles and components) all from a single compressed image codestream. In this paper, we present a flexible and scalable authentication scheme for JPEG20 ...

Keywords: JPEG2000, authentication, data integrity, digital signature, image compression, merkle hash tree, message digest, one-way hash function

24 Meeting experience: Experiential meeting system



Ramesh Jain, Pilho Kim, Zhao Li

November 2003 **Proceedings of the 2003 ACM SIGMM workshop on Experiential telepresence**

Full text available: [pdf\(388.84 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We are developing experiential meeting systems to allow people to be tele-present in a remote meeting and to be able to review proceedings of a meeting or of several meetings using all the data recorded in a meeting. We consider this as a problem in management and experiential access to all multimedia data acquired in a meeting. The data includes video, audio, presentations, text material, databases and websites related to people and the discussions in the meeting, and any other data or informat ...

Keywords: data event, elemental event and domain event, event, event based data processing, experiential systems, meeting

25 Routing protocols and overlays: On exploring performance optimizations in web service composition



Jingwen Jin, Klara Nahrstedt

October 2004 **Proceedings of the 5th ACM/IFIP/USENIX international conference on Middleware**

Full text available: [pdf\(403.35 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)

The importance of service composition has been widely recognized in the Internet research community due to its high flexibility in allowing development of customized applications from primitive services in a plug-and-play manner. Although much research in defining architectures, choreography languages and etc, has been conducted, little attention has been paid to composite services' runtime performance-related aspects (e.g., network bandwidths, path delay, machine resources), which are of great ...

Keywords: QoS, application-level routing, multicast, overlay networks, service composition

26 Research track papers: Scalable mining of large disk-based graph databases



Chen Wang, Wei Wang, Jian Pei, Yongtai Zhu, Baile Shi

August 2004 **Proceedings of the 2004 ACM SIGKDD international conference on Knowledge discovery and data mining**

Full text available: [pdf\(214.28 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Mining frequent structural patterns from graph databases is an interesting problem with broad applications. Most of the previous studies focus on pruning unfruitful search subspaces effectively, but few of them address the mining on large, disk-based databases. As many graph databases in applications cannot be held into main memory, scalable mining of large, disk-based graph databases remains a challenging problem. In this paper, we develop an effective index structure, ADI (for <u> ...

Keywords: frequent graph pattern, graph database, graph mining, index

27 SI in digital libraries

Nabil R. Adam, Vijayalakshmi Atluri, Igg Adiwijaya
June 2000 **Communications of the ACM**, Volume 43 Issue 6

Full text available:  pdf(145.60 KB)

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28 Guest editorial

Philip A. Bernstein, Yannis Ioannidis, Raghu Ramakrishnan
August 2003 **The VLDB Journal — The International Journal on Very Large Data Bases**,
Volume 12 Issue 2

Full text available:  pdf(34.00 KB)

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29 Digital rights (and wrongs)

Dennis Fowler
June 2002 **netWorker**, Volume 6 Issue 2

Full text available:  pdf(68.75 KB)  html(31.00 KB)

Additional Information: [full citation](#), [abstract](#), [index terms](#)

New legislation intended to resolve intellectual property issues only puts opposing viewpoints in stark relief

30 Regulating service access and information release on the Web

Piero Bonatti, Pierangela Samarati
November 2000 **Proceedings of the 7th ACM conference on Computer and communications security**

Full text available:  pdf(599.91 KB)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: access control, digital certificate, privacy

31 DRM experience: Digital rights management in a 3G mobile phone and beyond

Thomas S. Messerges, Ezzat A. Dabbish
October 2003 **Proceedings of the 2003 ACM workshop on Digital rights management**

Full text available:  pdf(306.59 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In this paper we examine how copyright protection of digital items can be securely managed in a 3G mobile phone and other devices. First, the basic concepts, strategies, and requirements for digital rights management are reviewed. Next, a framework for protecting digital content in the embedded environment of a mobile phone is proposed and the elements in this system are defined. The means to enforce security in this system are described and a novel "Family Domain" approach to content management ...

Keywords: MPEG-21, copyright protection, cryptography, digital content, digital rights management, embedded system, key management, mobile phone, open mobile alliance, security

32 Special section on semantic web and data management: The Grid: an application of the semantic web

Carole Goble, David De Roure
December 2002 **ACM SIGMOD Record**, Volume 31 Issue 4

Full text available:  pdf(600.40 KB) Additional Information: [full citation](#), [abstract](#), [references](#)

The Grid is an emerging platform to support on-demand "virtual organisations" for coordinated resource sharing and problem solving on a global scale. The application thrust is large-scale scientific endeavour, and the scale and complexity of scientific data presents challenges for databases. The Grid is beginning to exploit technologies developed for Web Services and to realise its potential it also stands to benefit from Semantic Web technologies; conversely, the Grid and its scientific users p ...

33 Effective access to large audiovisual assets based on user preferences 

S. Ioannou, G. Moschovitis, K. Ntalianis, K. Karpouzis, S. Kollias

November 2000 **Proceedings of the 2000 ACM workshops on Multimedia**

Full text available:  pdf(1.01 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Current multimedia databases contain a wealth of information in the form of audiovisual, as well as text data. Even though efficient search algorithms have been developed for either media, there still exists the need for abstract presentation and summarization of the results of database users' queries. Moreover, multimedia retrieval systems should be capable of providing the user with additional information related to the specific subject of the query, as well as suggest other topics which us ...

Keywords: multimedia databases, query expansion, text-based search, user profiling, web access

34 Cumulating and sharing end users knowledge to improve video indexing in a video digital library 

Marc Nanard, Jocelyne Nanard

January 2001 **Proceedings of the 1st ACM/IEEE-CS joint conference on Digital libraries**

Full text available:  pdf(250.01 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

In this paper, we focus on a user driven approach to improve video indexing. It consists in cumulating the large amount of small, individual efforts done by the users who access information, and to provide a community management mechanism to let users share the elicited knowledge. This technique is currently being developed in the "OPALES" environment and tuned up at the "Institut National de l'Audiovisuel&r dquo;(INA), a National Video Library in Paris, to increase the v ...

Keywords: knowledge sharing, private workspaces, users communities, video annotation, video indexing

35 Software engineering: a roadmap 

Anthony Finkelstein, Jeff Kramer

May 2000 **Proceedings of the Conference on The Future of Software Engineering**

Full text available:  pdf(160.70 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: discipline, future, research, software engineering, strategy

36 The state of the art in locally distributed Web-server systems 

Valeria Cardellini, Emiliano Casalicchio, Michele Colajanni, Philip S. Yu

June 2002 **ACM Computing Surveys (CSUR)**, Volume 34 Issue 2

Full text available:  pdf(1.41 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The overall increase in traffic on the World Wide Web is augmenting user-perceived

response times from popular Web sites, especially in conjunction with special events. System platforms that do not replicate information content cannot provide the needed scalability to handle large traffic volumes and to match rapid and dramatic changes in the number of clients. The need to improve the performance of Web-based services has produced a variety of novel content delivery architectures. This article w ...

Keywords: Client/server, World Wide Web, cluster-based architectures, dispatching algorithms, distributed systems, load balancing, routing mechanisms

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2		US 2004019369 7 A1	20040930	Accessing a remotely-stored data set and associating notes with that data set	709/217	Grosvenor, David Arthur et al.
3		US 2004014830 7 A1	20040729	Browser based web site generation tool and run time engine	707/102	Rempell, Steven H.
4		US 2004000160 6 A1	20040101	Watermark fonts	382/100	Levy, Kenneth L.
5		US 2003019355 8 A1	20031016	Media-enhanced greetings and/or responses in communication systems	348/14.01	Doss, J. Smith et al.
6		US 2003007635 0 A1	20030424	Interface for content development	715/738	Vu, Giao
7		US 2003004093 1 A1	20030227	System, computer, programme, and device of handling data to be used for returning items	705/1	De Mol Van Otterloo, Maarten Joost et al.
8		US 2003002349 6 A1	20030130	Method, computer programme, and device of handling data to be used for returning items	705/22	De Mol Van Otterloo, Maarten Joost et al.

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9		US 2002017414 6 A1	20021121	Systems and methods for managing identify information	715/513	Dang, Chi-Thanh et al.
10		US 2002009557 9 A1	20020718	Digital data authentication method	713/176	Yoshiura, Hiroshi et al.
11		US 2002006238 2 A1	20020523	Collateral data combined with other data to select web site	709/228	Rhoads, Geoffrey B. et al.
12		US 2002005916 2 A1	20020516	INFORMATION SEARCH METHOD AND SYSTEM THEREFOR	707/1	SHINODA, TAKASHI et al.
13		US 2002003273 4 A1	20020314	Collateral data combined with user characteristics to select web site	709/204	Rhoads, Geoffrey B.
14		US 2001002197 8 A1	20010913	Method of referring to digital watermark information embedded in a mark image	713/176	Okayasu, Satoe et al.
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17		US 6611830 B2	20030826	Information search method and system for registering and searching for associated multimedia data using embedded information	707/3	Shinoda; Takashi et al.
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19		US 6417969 B1	20020709	Multiple viewer headset display apparatus and method with second person icon display	359/630	DeLuca; Michael et al.
20		US 6370543 B2	20020409	Display of media previews	707/104.1	Hoffert; Eric M. et al.
21		US 6131162 A	20001010	Digital data authentication method	713/176	Yoshiura; Hiroshi et al.
22		US 5983176 A	19991109	Evaluation of media content in media files	704/233	Hoffert; Eric M. et al.
23		JP 2003152985 A	20030523	Compression encoding method for copyright protection of web page contents, involves bundling up of web page contents to generate image file of predetermined format		

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24	X	US 6546397 B1	20030408	Browser based web site generation tool and run time engine	707/102	Rempell; Steven H.
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